

TOWN OF LAUDERDALE-BY-THE-SEA

AGENDA ITEM REQUEST FORM

	Devel	opment Servic	ces					B		
		ent Submitting Requ			-		/	Dept Head's S	Signature 2	0
	Commission Meeting Dates	Last date to turn in to Town Clerk's Office		Commission Meeting Dates		e to turn in to lerk's Office		Commission Meeting Dates		e to turn in to lerk's Office
	Nov 10, 2009	Oct. 30 (5:00 p.m.)		Jan 26, 2010	Jan 15 (5:00 p.m.)		March 23, 2010	0 Mar 12	(5:00 p.m.)
	Dec 1, 2009	Nov 20 (5:00 p.m.)		Feb 9, 2010	Jan 29 (5:00 p.m.)		April 13, 2010	April 2	(5:00p.m.)
	Dec 8, 2009	Nov 25 (5:00 p.m.)		Feb 23, 2010	Feb 12 ((5:00 p.m.)		April 27, 2010	April 16	(5:00p.m.)
	Jan 12, 2010	Dec 31 (5:00 p.m.)	×	Mar 4, 2010	Feb 19 (5:00p.m.)		May 11, 2010	April 30	(5:00p.m.)
	TURE OF ENDA ITEM		Rep	sent Agenda		Resolution Ordinance Public Hea Old Busine	ring		New Busin Manager's Attorney's Other	Report
with	LANATION: in the RM-25 zo FF RECOMM	Commission to appropriate the commission of the	vn Or	a Special Exce dinance 30-32	ption for 25 (d) (6)	the placeme. See attache	ent o	f rooftop ante ck-up.	ennas (1900	S Ocean Blvc
BOA	ARD/COMMIT	TEE RECOMMEN	NDA'	ΓΙΟΝ: N/A	L					
FISC	CAL IMPACT	AND APPROPRIA	TIO	N OF FUNDS	S: N	I/A				
	Amount \$		Acct	#						
	Transfer of fun	• =		Acct #						
	Bid	LJ (Grant	: [] A	mount re	presents ma	tchir	ig funds		
							:			
										
							<u></u>			
_	Attorney review	•								
\boxtimes	Yes	No						Tour M	anager's Initi	ale: (90

INTEROFFICE MEMORANDUM

TO:

JOHN OLINZOCK, ASSISTANT TOWN MANAGER

FROM:

JEFF BOWMAN, DEVELOPMENT SERVICES DIRECTOR

SUBJECT:

CLEAR WIRELESS LLC. ANTENNAS AT OCEAN PLACE

DATE:

2/18/2010

I have reviewed the application submitted by Clearwire on February 08, 2010 for the installation of antennas. The proposed location of these antennas is at Ocean Place Condominium (1900 S Ocean Blvd.). I have provided comments below in red addressing the seven (7) items within 30-325 that must be met. Additionally, the applicant must obtain approval from the commission as set forth in section (6) of 30-325 for a Special Exception. This item is expected to be placed on the March 23, 2010 Commission meeting for the Special Exception approval.

Sec. 30-325. Telecommunication towers and antennas.

Stealth facility: Any telecommunications facility which is designed to blend into the surrounding environment. Examples of stealth facilities include architecturally screened roof-mounted antennas, antennas integrated into architectural elements, and telecommunication towers designed to look like light poles, power poles or trees. (The proposed antennas are non-stealth antennas)

- (d) Antennas not located on telecommunications towers.
 - (1) Antennas shall be permitted as follows:
 - a. Stealth rooftop or building-mounted antennas may be permitted as an accessory use in the following zoning districts:
 - 1. RM-50.
 - b. Non-stealth rooftop or building-mounted antennas shall only be conditionally permitted as an accessory use in the following zoning districts subject to the procedure and requirements provided elsewhere in this chapter:
 - 1. (B-1) Business.
 - 2. (B-2) Business.
 - 3. (CF) Community facility.
 - (2) Minimum standards. Building or rooftop antennas shall be subject to the following minimum standards:

- (b) Building rooftop non-stealth antennas shall be subject to the following minimum standards:
 - Antennas shall only be permitted on buildings which are at least 50 feet tall. Antennas may be placed on buildings less than 50 feet tall in the CF district if public safety needs warrant the antenna;

(Building rooftop is 150 Ft high, penthouse rooftop is 170ft high)

 Antennas may not extend more than 20 feet above highest point of a roof. Stealth antennas attached to but not above rooftop structures shall be exempt from this provision. Antennas may exceed 20 feet above the roof in the CF district if public safety needs warrant additional height;

(Antennas and equipment do not exceed the height of the penthouse rooftop)

3. Antennas, and related equipment buildings, shall be located or screened to minimize the visual impact of the antenna upon adjacent properties and shall be of a material or color which matches the exterior of the building or structure upon which it is situated;

(The color of the proposed antennas will match the building colors as submitted in 8 ½ X 11 color rendering)

4. No commercial advertising shall be allowed on an antenna:

(No advertising is proposed)

5. No signals, lights, or illumination shall be permitted on an antenna, unless required by the Federal Communications Commission or the Federal Aviation Administration;

(No signals, lights, or illumination is proposed)

6. Any related unmanned equipment building shall not contain more than 750 square feet of gross floor area or be more than 12 feet in height; and

(No equipment building is proposed, equipment will be affixed to the penthouse wall on the ocean side)

7. If the equipment building is located on the roof of the building, the area of the equipment building shall not occupy more than 25 percent of the roof area.

(No equipment building is proposed, equipment will be affixed to the penthouse wall on the ocean side)

(3) Antenna types. To minimize adverse visual impacts, stealth antenna types shall be preferred. If a non-stealth antenna is proposed, the application shall be required to demonstrate, in a technical manner acceptable to the Town staff, why the stealth antenna cannot be used for the particular application.

This does not preclude a combination of the various types of antennas.

(6) Exceptions. The location of a new antenna in any zoning district other than those districts specified in this section shall be prohibited unless approved as a special exception.

November 5, 2009

clear

RE: Clearwire FCC Compliance and Interference

To Whom It May Concern:

Clearwire provides wireless broadband services that use a network of fixed base stations. Clearwire operates between 2496 MHz and 2690 MHz spectrum using 10 MHz channels.

Clearwire will comply with all FAA and FCC regulations and applicable standards from all other federal, state, and local laws and regulations. As the applicant for this project, Clearwire will ensure that such installation, repair, operation, upgrading, maintenance and removal of antennas by the wireless communication provider shall be lawful and in compliance with all applicable laws, orders, ordinances and regulations of federal, state and local laws and regulations.

Antenna usage at our wireless installations will not interfere with other adjacent or neighboring transmission or reception of communications signals including emergency services.

Sincerely,

Reinaldo J. Cordero

Lead Radio Frequency Engineer

Clearwire South Florida

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FEB 0 8 2010

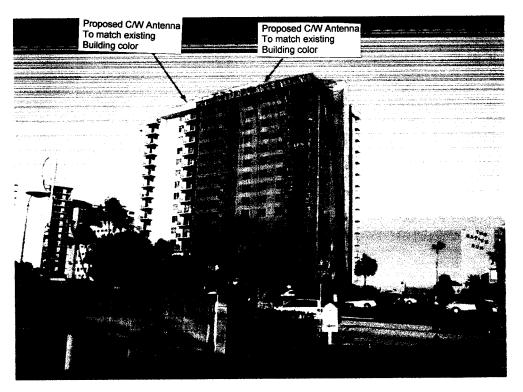
DEVELOPMENT SERVICES

Clearwire Antenna Installation

FL-MIA 5045-A Ocean Place Condo, Lauderdale by-the-Sea, Florida



View of West Elevation taken before installing antennas.



View of West Elevation taken after installing antennas.







AT LAUDERDALE BY THE SEA CONDOMINIUM ASSOCIATION, INC.

January 19, 2010

Mr. Murray Strauss Clear Wireless LLC 1180 SW 36th Avenue, Suite 207 Pompano Beach, FL 33069 SUDERDALE-BY. THE RECEIVED TO

FEB 0 8 2010

DEVELOPMENT SERVICES

Ms. Betty Tufford and Chad Caudill Powder River Development Services, LLC 1200 NW 17th Ave. Ste 21 Delray Beach, FL 33445

Re: FL-MIA5045-Site Plan Application - Designation of agent

Dear Mr. Strauss, Ms. Betty Tufford, and Mr. Chad Caudill:

Please allow this letter to serve as your authorization to act as Ocean Place at Lauderdale by the Sea Condominium Association, Inc., agent in procuring all the necessary permits with the City of Lauderdale by the Sea, FL., as it relates to the above referenced application.

Sincerely,

Catherine Fawcett – LCAM –

Assistant Secretary for the Association

STATE OF FLORIDA

COUNTY OF BROWARD

The above person <u>Catherine Fawcett produced as identification:</u>
or is personally known to me _____

This 19th day of

, 20 (0

Notary Public: May 7. Subla

NOTARY PUBLIC STATE OF FLORIDA
Mary F. Grebla
Commission # DD696844
Expires: JULY 18, 2011
BONDED THRU ATLANTIC BONDING CO., INC.

(Seal)



TOWN OF LAUDERDALE-BY-THE-SEA, FLORIDA SITE PLAN APPLICATION

Date Application submitted: 2.08.2010

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Date Application found complete: 2-18-20/0

DEVELOPMENT **SERVICES**

Town Commission meeting date: 3 - 23 - 2010

APPLICATION TYPE AND FEES

Consultant Fee Site Plan: Advertising: \$400.00 \$2600.00 \$ 500.00

Rezoning: \$ 500.00 Advertising: \$400.00 \$2600.00

Land Use Plan Amendment: \$ 500.00 Advertising: \$400.00 \$2600.00

Preliminary Plat: \$ 500.00 Advertising: \$400.00 \$2600.00

Final Plat: \$ 500.00 Advertising: \$400.00 \$2600.00

TOTAL DUE: \$3500.00

The Town Code provides for cost recovery of outside consultants, legal advertising costs, direct mail notice costs, etc. and depending on the scale of the project, additional fees may be incurred.

PROJECT INFORMATION

Project Name: Ocean Place Condo /Clear Wireless(FL-MIA5045)
Address: 1900 South Ocean Blvd
Legal Description: Lot Block Subdivision
Property Owner's Name: Ocean Place at Lauderdale By the Sea Condominium
Property Owner's Address: 1900 South Ocean Blvd
Phone Number: 954-943-5070 Fax: 954-943-5071
Agent/Applicant's Name:Murray Strauss (Clear Wireless LLC)
Address: 1180 SW 36th Ave Suite 207, Pompano Beach, FL 33069
Phone Number: 561-272-1103 Fax: 561-272-1373
Rotty 561-633-5250

DESCRIPTION OF PROJECT:

Installation of 6 antennas on existing rooftop structure walls						
and one electrical cabinet with conduit and new 100 amp						
electrical service with new meter and disconnect mounted on						
existing rooftop and structure wall.						
Applicant/Agent Signature:						
MURRAY STRAUIS THE ABOVE PERSON PRODUCED AS IDENTIFICATION:						
THE ABOVE PERSON PRODUCED AS IDENTIFICATION.						
OR IS PERSONALLY KNOWN TO ME Notary Public State of Flori Lourdes M Delfin						
THIS 19th DAY OF January, 20 10 My Commission DD67483 Expires 07/13/2011						
NOTARY PUBLIC: TOWNED ., COUNTY OF BROWARD						
*If Agent/Applicant is not Owner, a notarized letter is required from Owner.						



PROJECT CHARACTERISTICS

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For Proposed Re Unit Type	esidential Projects:		DEVELOP! SERVIC
Single Family	Number of Units	Plot Size	Density
Duplex	Number of Units	Plot Size	Density
Townhouses	Number of Units	Plot Size	Density Density
Condominiums		Plot Size	Density
Motel Units		Plot Size	Density
	Number of Units	Plot Size	Density
For Proposed No	on-Residential Projects	:	
Primary Land Use	Туре		
Commercial	Gross Floor Area	Plot Size	# of Stories
Office	Gross Floor Area	Plot Size	# of Stories
			# of Stories
Medical	Gross Floor Area	Plot Size	# of Stories
	Gross Floor Area <u>4</u> 4	পুরু জু Plot Size	# of Stories
Existing Site Cha	aracteristics RM-25 _ Land Use Plar	n Designation	
Existing Land Use	Residential Con	Idominitum	
Presently Vacant			
In Residential use Number of Units _	Last Date (Occupied ize	To Be Demolished Density
In Non-Residentia	ıl use Last Da	te Occupied	To Be Demolished # of Stories

Town Code



FEB 0 8 2010

Lauderdale by the sea

Sec. 30-325. Telecommunication towers and antennas.

(a) Intent. The regulations and requirements of this section are intended to:

DEVELOPMENT SERVICES

- (1) Promote the health, safety and general welfare of the citizens by regulating the siting of telecommunications towers;
- (2) Provide for the appropriate location and development of telecommunication towers and antennas within the town;
- (3) Minimize adverse visual effects of telecommunication towers and antennas through careful design, siting, landscape screening and innovative camouflaging techniques;
- (4) Avoid potential damage to adjacent properties from tower failure through engineering and careful siting of tower structures;
- (5) Protect residential areas and land uses from potential adverse impacts of telecommunication towers and antennas by maximizing use of any new or existing telecommunication towers through shared use, i.e., co-location, to reduce the number of towers needed.
- (b) Definitions.

Accessory use: A use incidental to, subordinate to, and subservient to the main use of the property.

Antenna: A transmitting and/or receiving device used for personal wireless services that radiates or captures electromagnetic waves, including directional antennas, such as panel and microwave dish antennas, and omni-directional antennas, such as whips, excluding radar antennas, amateur radio antennas and satellite earth stations.

Guyed tower: A telecommunication tower that is supported, in whole or in part, by guy wires and ground anchors.

Microwave, Dish antenna: A dish-like antenna used to link personal wireless service sites together by wireless transmission of voice or data.

Monopole tower: A telecommunication tower consisting of a single pole or spire self-supported by a permanent foundation, constructed without guy wires and ground anchors.

Panel antenna: An array of antennas designed to concentrate a radio signal in a particular area. Self-support/lattice tower: A telecommunication tower that is constructed without guy wires and ground anchors.

Stealth facility: Any telecommunications facility which is designed to blend into the surrounding environment. Examples of stealth facilities include architecturally screened roof-mounted antennas, antennas integrated into architectural elements, and telecommunication towers designed to look like light poles, power poles or trees.

Telecommunication tower: A guyed, monopole or self-support/lattice tower, constructed as a free-standing structure, containing one or more antennas used in the provision of personal wireless services.

Whip antenna: A cylindrical antenna that transmits signals in 360 degrees.

- (c) Telecommunications towers.
- (1) Freestanding telecommunication towers may be permitted as an accessory use in the following zoning districts:
- a. (CF) Community facilities greater than 2 acres. On property owned by the Town, the Town shall authorize the application and use of Town property after the applicant executes a lease agreement acceptable to the Town. The Town shall have no obligation whatsoever to execute such lease even if the applicant can meet the criteria set forth herein.



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(2) Towers as part of existing utility poles may be permitted as an accessory use in the following zoning districts: B-1, B-1a, B-2, and RM-50.

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- a. Towers shall be constructed as part of the existing utility poles or as replacements for the existing utility poles. No freestanding towers constructed exclusively for personal wireless services shall be permitted.
- (3) Freestanding telecommunication towers shall be permitted, as a conditional use, in the B-2 zoning district provided the towers are an accessory use and subject to the procedure and requirements of the Code of Ordinances, the zoning code and other applicable rules and regulations. This provision does not preclude the use of vacant property in the B-2 zoning district; however, a monopole type stealth facility must be utilized.
- (4) Exceptions. The location of a new telecommunications tower in any zoning district other than those districts specified in this section must be approved as a special exception.
- (5) Minimum standards. Except where a special exception is granted, every telecommunications tower must meet the following minimum standards:
- a. Prior to the issuance of a building permit by the Building Division, Department of Community Services, a site development plan shall be presented for approval to the Planning Division, Department of Community Services. Each application for a proposed telecommunication tower shall include all requirements for site development plan approval as required by the Town's Code of Ordinances, the zoning code and other applicable rules and regulations. The Director of Community Services may waive all or some of these provisions for stealth towers which are designed to emulate existing structures already on the site, including but not limited to light standards or power poles.
- b. A statement shall be submitted, prepared by a professional registered engineer licensed to practice in the State of Florida, which through rational engineering analysis certifies the tower's compliance with applicable standards as set forth in the South Florida Building Code, latest Broward County Edition, and any associated regulations including Electronic Industry Association/Telecommunications Industry Association standard for wind load; and describes the tower's capacity, including an example of the number and type of antennas it can accommodate. No tower shall be permitted to exceed its loading capacity. For all towers attached to existing structures, the statement shall include certification that the structure can support the load superimposed from the tower. All towers shall have the capacity to permit multiple users; at a minimum, monopole towers shall be able to accommodate two users and at a minimum, self-support/lattice or guyed towers shall be able to accommodate three users.
- c. Height/setbacks and related location requirements.
- 1. The height of a telecommunications tower shall not exceed 150 feet. Tower height shall be measured from the crown of the road of the nearest public street.
- 2. Telecommunication towers shall conform with the setbacks established for the underlying zoning district.
- 3. Monopole, lattice or guyed telecommunication towers shall not be permitted within 250 feet of any residential district.
- 4. Monopole, lattice or guyed telecommunication towers shall not be located within 750 feet of any existing monopole, lattice or guyed telecommunication tower.
- 5. All buildings and other structures to be located on the same property as a telecommunication tower shall conform with the setbacks established for the underlying zoning district.
- d. Aircraft hazard. Prior to the issuance of a building permit by the Building Division, Department of Community Services, the applicant shall provide evidence that the

telecommunication towers or antennas are in compliance with Federal Aviation Administration (FAA) regulations. Where an antenna will not exceed the highest point of the existing structure upon which it is to be mounted, such evidence shall not be required.

- e. Approval required from other governmental agencies. Each application for a telecommunication tower may be required to include written approval or a statement of no objection from other federal or state agencies that may regulate telecommunication tower siting, design, and construction.
- f. FCC emissions standards. All proposed telecommunication towers shall comply with current radio frequency emissions standards of the Federal Communications Commission.
- g. Buffering.
- 1. An eight-foot fence or wall as measured from the finished grade of the site, shall be required around the base of any lattice tower and may be permitted around any accessory buildings or structures.
- 2. Landscaping, consistent with the requirements of the Land Development Code, shall be installed around the entire perimeter of any fence or wall. Additional landscaping may be required around the perimeter of a fence or wall and around any or all anchors or supports if deemed necessary to buffer adjacent properties. The Town may require landscaping in excess of the requirements of the Town Code in order to enhance compatibility with adjacent residential and nonresidential land uses. Landscaping shall be installed on the outside of the perimeter fence or wall.
- 3. Landscaping consistent with perimeter and on-site requirements of the Land Development Code shall be installed around any accessory buildings or structures.
- h. High voltage and "No Trespassing" warning signs.
- 1. If high voltage is necessary for the operation of the telecommunications tower or any accessory structures, "HIGH VOLTAGE--DANGER" warnings signs shall be permanently attached to the fence or wall and shall be spaced no more than 40 feet apart.
- 2. "NO TRESPASSING" warning signs shall be permanently attached to the fence or wall and shall be spaced no more than 40 feet apart.
- 3. The letters for the "HIGH VOLTAGE--DANGER" and "NO TRESPASSING" warning signs shall be at least six inches in height. The two warning signs may be combined into one sign. The warning signs shall be installed at least five feet above the finished grade of the fence.
- 4. The warning signs may be attached to freestanding poles if the content of the signs may be obstructed by landscaping.
- i. Equipment storage. Mobile or immobile equipment not used in direct support of a tower facility shall not be stored or parked on the site of the telecommunication tower, unless repairs to the tower are being made.
- j. Removal of abandoned or unused facilities. All abandoned or unused telecommunication tower facilities shall be removed by the tower owner/operator within 90 days of the cessation of use. A tower shall be considered abandoned if use has been discontinued for 180 consecutive days. Telecommunication towers being utilized for other purposes, including but not limited to light standards and power poles, may be exempt from this provision.
- k. Signs and advertising. The use of any portion of a tower for signs or advertising purposes, including company name, banners, streamers, etc., shall be strictly prohibited.
- l. Accessory buildings or structures. All accessory buildings or structures shall meet all building design standards as listed in the Town's Code of Ordinances, the Town's zoning code, and in accordance with the provisions of the South Florida Building Code, latest Broward County PECENTED

Edition. All accessory buildings or structures shall require a building permit issued by the Building Division, Department of Community Services.

- m. Colors. Except where superseded by the requirements of other County, State, or Federal regulatory agencies possessing jurisdiction over telecommunications towers, telecommunications towers shall be painted or constructed in neutral colors, designed to blend into the surrounding environment such as noncontrasting gray.
- n. Non-interference. Each application to allow construction of a telecommunication tower shall include a certified statement that the construction and placement of the tower, will not interfere with public safety communications.
- (6) Inspections.
- a. Telecommunication tower owners shall submit a report to the Town Building Division, Department of Community Services, certifying structural and electrical integrity on the following schedule:
- 1. Monopole towers--At least once every five years;
- 2. Self-support/lattice towers--At least once every two years; and
- 3. Guyed towers--At least once every two years.
- b. Inspections shall be conducted by an engineer licensed to practice in the State of Florida. The results of such inspections shall be provided to the Building Division, Department of Community Services. Based upon the results of an inspection, the Building Official may require repair or removal of a telecommunication tower.
- c. The Building Division, Department of Community Services, may conduct periodic inspections of telecommunication towers to ensure structural and electrical integrity. The owner of the telecommunications tower may be required by Town to have more frequent inspections should there be reason to believe that the structural and electrical integrity of the tower is jeopardized.
- (7) Construction of any tower type other than stealth and monopole, including but not limited to lattice and guyed towers, shall require a special exception.
- (8) Telecommunications towers are prohibited when a proposed or existing principal use includes the storage, distribution, or sale of volatile, flammable, explosive, or hazardous wastes such as LP gas, propane, gasoline, natural gas, and corrosive or dangerous chemicals.
- (9) Existing towers.
- a. Notwithstanding the above provisions of this section, telecommunications antennas may be placed on existing towers with sufficient loading capacity after approval by the Director of Community Services. The capacity shall be certified by an engineer licensed to practice in the State of Florida.
- b. Notwithstanding the above provisions of this section, towers in existence as of October 1, 1996, may be replaced with a tower of equal or less visual impact after approval by the Town Manager or his designee. However, if the proposed new tower would not be consistent with the minimum standards under this section, replacement must be approved by the Town Commission.
- (d) Antennas not located on telecommunications towers.
- (1) Antennas shall be permitted as follows:
- a. Stealth rooftop or building-mounted antennas may be permitted as an accessory use in the following zoning districts:
- 1. RM-50.

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- b. Non-stealth rooftop or building-mounted antennas shall only be conditionally permitted as an accessory use in the following zoning districts subject to the procedure and requirements provided elsewhere in this chapter:
- 1. (B-1) Business.
- 2. (B-2) Business.
- 3. (CF) Community facility.
- (2) Minimum standards. Building or rooftop antennas shall be subject to the following minimum standards:
- a. Building rooftop stealth antennas shall be subject to the following minimum standards:
- 1. No commercial advertising shall be allowed on an antenna;
- 2. No signals, lights, or illumination shall be permitted on an antenna, unless required by the Federal Communications Commission or the Federal Aviation Administration;
- 3. Any related unmanned equipment building shall not contain more than 750 square feet of gross floor area or be more than 12 feet in height; and
- 4. If the equipment building is located on the roof of the building, the area of the equipment building shall not occupy more than 25 percent of the roof area.
- 5. Each application shall contain a rendering or photograph of the antenna including, but not limited to, colors and screening devices. This shall be subject to administrative approval for consistency with the definition of stealth facility.
- (b) Building rooftop non-stealth antennas shall be subject to the following minimum standards:
- 1. Antennas shall only be permitted on buildings which are at least 50 feet tall. Antennas may be placed on buildings less than 50 feet tall in the CF district if public safety needs warrant the antenna;
- 2. Antennas may not extend more than 20 feet above highest point of a roof. Stealth antennas attached to but not above rooftop structures shall be exempt from this provision. Antennas may exceed 20 feet above the roof in the CF district if public safety needs warrant additional height;
- 3. Antennas, and related equipment buildings, shall be located or screened to minimize the visual impact of the antenna upon adjacent properties and shall be of a material or color which matches the exterior of the building or structure upon which it is situated;
- 4. No commercial advertising shall be allowed on an antenna;
- 5. No signals, lights, or illumination shall be permitted on an antenna, unless required by the Federal Communications Commission or the Federal Aviation Administration;
- 6. Any related unmanned equipment building shall not contain more than 750 square feet of gross floor area or be more than 12 feet in height; and
- 7. If the equipment building is located on the roof of the building, the area of the equipment building shall not occupy more than 25 percent of the roof area.
- (3) Antenna types. To minimize adverse visual impacts, stealth antenna types shall be preferred. If a non-stealth antenna is proposed, the application shall be required to demonstrate, in a technical manner acceptable to the Town staff, why the stealth antenna cannot be used for the particular application.

This does not preclude a combination of the various types of antennas.

(4) Antenna dimensions. Antenna dimensions shall be approved by the Director of Community Services as required by existing technology. A statement shall be submitted, prepared by a professional registered engineer licensed to practice in the State of Florida, to certify the required dimensions.

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- (5) Aircraft hazard. Prior to the issuance of a building permit by the building division, department of community development, the applicant shall provide evidence that the telecommunications towers or antennas are in compliance with Federal Aviation Administration (FAA) regulations. Where an antenna will not exceed the highest point of the existing structure upon which it is to be mounted, such evidence shall not be required.
- (6) Exceptions. The location of a new antenna in any zoning district other than those districts specified in this section shall be prohibited unless approved as a special exception.
- (e) Shared use of communication antennas.
- (1) Notwithstanding any other provision of this article, to minimize adverse visual impacts associated with the proliferation and clustering of telecommunication towers, co-location of facilities on existing or new towers shall be encouraged by:
- a. Only issuing permits to qualified shared facilities at locations where it appears there may be more demand for towers than the property can reasonably accommodate; or
- b. Giving preference to qualified shared facilities over other facilities in authorizing use at particular locations.
- (2) For a facility to become a "qualified shared facility", the facility owner must show that:
- a. The facility is appropriately designed for sharing, and
- b. The facility owner is prepared to offer adequate space on the facility to others on fair and reasonable, nondiscriminatory terms.
- (3) To satisfy the requirements of subsection (2)a of this section, the facility owner must submit a written evaluation of the structural capacity of the tower.
- (4) The requirements of subsection (2)b of this section will be deemed to have been met if the facility owner shows that it has executed a joint use agreement with at least one other unaffiliated entity for shared use, and agrees to offer a similar contract to others. In other cases, the facility owner must enter into an agreement with the Town, acceptable to the Town, to offer space on fair, reasonable, nondiscriminatory terms, at fair market value, and to negotiate leases promptly and without undue delay. A condition of any permit for a qualified shared facility shall be that the permit shall be terminated, and the facility removed, if the Town finds that the facility owner is not complying with its obligations under this section and associated agreements with the Town.
- (5) Co-location of communication antennas by more than one provider on existing or new telecommunication towers shall take precedence over the construction of new single-use telecommunication towers. Accordingly, each application for a telecommunication tower shall include the following:
- a. A written evaluation of the feasibility of sharing a telecommunication tower, if an appropriate telecommunication tower or towers is/are available. The evaluation shall analyze one or more of the following factors:
- 1. Structural capacity of the tower or towers;
- 2. Radio frequency interference;
- 3. Geographical service area requirements;
- 4. Mechanical or electrical incompatibility;
- 5. Inability or ability to locate equipment on the tower or towers;
- 6. Availability of towers for co-location;
- 7. Any restrictions or limitations of the Federal Communications Commission that would ALE-BY. THE preclude the shared use of the tower.
- 8. Additional information requested by the Town.

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- b. The Town may deny an application if an available co-location is feasible and the application is not for such co-location.
- (6) A telecommunication tower that is determined to be inappropriate for sharing shall be assumed to be inappropriate for sharing the same types of facilities in the future. Such towers will not need to be evaluated in the future regarding sharing with the same type of facility for which it has been determined to be inappropriate. The Community Services Department shall retain a list of such towers, and will provide a copy of the list to all potential applicants. The Town may require additional sharing feasibility evaluations if warranted by changes in technology.
- (7) For any telecommunications tower approved for shared use, the owner of the tower shall provide notice of the location of the telecommunication tower and the tower's load capacity to all other providers.
- (f) Applications.
- (1) The Town shall act promptly on any application submitted in accordance with the provisions of paragraphs (a) through (f) of this section. The reasons for rejecting any application filed under these provisions shall be explained, set forth in writing and based on substantial evidence. The rejection of an application under this section does not prevent a person from filing an application for a special exception in accordance with applicable law.
- (2) The issuance of a permit, however, is not a lease and no municipally owned property may be used without a lease agreement with the Town. The Town may, as appropriate, to protect its property and the public interest, establish additional requirements beyond the minimum requirements of a permit for municipally owned property. This provision further does not preclude the Town from issuing a letter of interest for the purposes of leasing sites on designated Town property for the construction and installation of personal wireless service facilities. For designated neighborhood parks, the Town will encourage the installation of facilities which have a minimal impact on the surrounding areas and are consistent with the development of the park. (Ord. No. 393, § 1, 7-22-97; Ord. No. 2007-14, § 2(Exh. A), 9-25-07)

Sec. 30-326. General regulations for window awnings and entrance canopies.

- (a) A permit shall be required for the construction, fabrication, installation, repair or replacement of any awning or canopy erected over public property, or over private property used for business purposes, or over private property when such structure is in whole or in part self-supported. A permit is not required for the repair or replacement of fabric awnings or canopies when the existing structural framework is not altered or removed and when such framework is otherwise in compliance with applicable codes and regulations.
- (b) Fabric awnings and canopies located over public property, over areas accessible to the public, over sidewalks or over other areas providing ingress or egress to a site or building shall be constructed so that no rigid part of such fabric awning or canopy shall be less than seven feet six inches from the grade directly below, and no part of the cloth drop or valence shall be less than six feet, eight inches from the grade directly below. Such awning or canopies shall be constructed of flame-resistant materials.
- (c) A permit for any awning or canopy extending from private property over any adjoining public property, public right-of-way or public easement may be issued only to a licensed contractor, and shall not be issued until the private property owner has executed a written hold harmless agreement which shall indemnify, defend, save and hold harmless the Town, its property officials, officers, directors, agents and employees from any and all claims, liability, days ages of the contractor.

and causes of action which may arise out of such permit or the activities of the permitee and property owner. Prior to the issuance of the permit, the property owner shall obtain and maintain for the entire period that such awning or canopy exists commercial general liability insurance in the amount of \$1,000,000.00 per occurrence for bodily injury or property damage. The Town must be named as an additional insured on the policy, and an endorsement must be issued as part of the policy reflecting this requirement. All policies must be issued by companies authorized to do business in the State of Florida and must be rated no less than A-VI in the latest edition of "Best Key Rating Guide" published by A.M. Best Guide. The policy shall provide that the Town shall receive 45 days prior written notice prior to any cancellation, non-renewal or material change in the coverage provided. The property owner must provide an original certificate of insurance as evidence that the above requirements have been met prior to issuance of the permit. No improvements shall be installed until the Town approves the form of insurance provided as required herein. In the event that the property owner fails to maintain the required insurance or fails to properly maintain the awning or canopy in a safe, clean and attractive condition, the Town may order its immediate removal as a public nuisance and hazard.

- (d) Fabric awnings and canopies may not be enclosed with any material other than a valence not more than 18 inches in vertical depth or fabric roller curtains for temporary shade or weather protection.
- (e) No awning or canopy shall extend any closer than 18 inches to the curb line, or where no curb is present, no closer than four feet to the edge of pavement of any street or drive aisle. No awning or canopy shall extend any closer than five feet to any light or utility pole, tree trunk or traffic control pole or sign. No awning or canopy may obstruct cross-visibility at an intersection or driveway.
- (f) All awnings and canopies on the same lot, building or complex shall utilize the same color fabric. All support columns for canopies shall be painted to match the building or shall be painted white. The colors of awnings and canopies shall be coordinated with the color scheme of the building. The fabric of awnings and canopies may have no more than three colors and shall be limited to solid colors, stripes or other simple designs. No polka dot, checkerboard, floral or other exhibitionist patterns are permitted. No day-glow, phosphorescent, iridescent or other exhibitionist colors shall be permitted. Awnings and canopies may be illuminated with down lighting and may illuminate the areas under the awnings or canopies, however, translucent awnings or canopies shall not be internally illuminated in any way that would cause the awnings or canopies to glow.
- (g) All awnings and canopies shall also conform to the requirements for such structures specified in the applicable zoning district regulations of the Town's Code of Ordinances.
- (h) Any signage, text, logo or other image on any awning or canopy is subject to separate permit and regulation under the sign regulations of the Town's Code of Ordinances.
- (i) In RS-5 and RD-10 Districts the following additional regulations shall apply: Window awnings shall be permitted within the required front, side and rear setbacks, but may extend from the supporting building wall no more than five feet and may extend no closer than five feet to a side or rear property line, nor 20 feet to a front property line.
- (j) In RM-25, RM-50 and CF Districts the following additional regulations shall apply:
- (1) Window awnings shall be permitted within the required front, side and rear setbacks, but may extend from the supporting building wall no more than five feet and may extend no closed ALE-BY. The than five feet to a side or rear property line, nor 20 feet to a front property line.

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- (2) Entranceway canopies to shelter an entrance walkway shall be permitted within the required front and side corner setbacks, but shall be limited to parcels with at least 100 feet of lot width, shall be limited to one such canopy per building per street frontage and shall extend no closer than 18 inches to the front or side corner property lines. The support columns for such canopies shall be limited to round, tubular steel pipe of no more than four inches in diameter. Such canopies shall not exceed a width of eight feet or a height of 12 feet.
- (k) In B-1 and B-1-A Districts the following additional regulations shall apply:
- (1) Window awnings shall be permitted within the required front, side corner and rear setbacks, but shall extend from the supporting building wall no more than nine feet and shall extend no closer than five feet to a rear property line.
- (2) Entrance canopies may be permitted within the required front, side corner and rear setbacks and awnings and canopies may be permitted to extend from private property over adjoining public property, public right of way or public easement, but only with the specific approval of the Town Commission as part of site plan approval, and subject to any additional conditions, restrictions or safeguards that the Town Commission may deem appropriate.

 (Ord. No. 488, § 3, 2-12-02; Ord. No. 2007-14, § 2(Exh. A), 9-25-07)

 Secs. 30-327--30-360. Reserved.

Subdivision M. Reserved*

*Editor's note: Ord. No. 2008-09, § 2, adopted March 25, 2008, repealed Subdivision M, §§ 30-361--30-368 which pertained to the Town Village Overlay District. See also the Code Comparative Table.

Secs. 30-361--30-380. Reserved.

Subdivision N. Reserved*

*Editor's note: Ord. No. 2008-06, § 1, adopted March 25, 2008, repealed Subdivision N, §§ 30-381--30-389, which pertained to the Marina Village Zoning Overlay District. See also the Code Comparative Table.

Secs. 30-381--30-400. Reserved.

Subdivision O. Reserved*

*Editor's note: Ord. No. 2008-08, § 2, adopted March 25, 2008, repealed Subdivision O, §§ 30-401--30-408, which pertained to the Hospitality Village Overlay District. It should also be noted that Ord. No. 2008-07, § 2, adopted March 25, 2008, repealed the Beach Overlay District, which was in turn renamed as the Hospitality Village Overlay District. See also the Code Comparative Table.

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Secs. 30-401--30-440. Reserved.

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DEVELOPMENT SERVICES

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GENERAL NOTES

- ALL ELEVATIONS SHOUN HAVE BEEN TAKEN FROM AVAILABLE RECORDS FROM CLEAR WIRELESS LLC
- 2. ALL PROPERTY LINES AND EASEMENTS SHOWN HAVE BEEN TAKEN FROM AVAILABLE RECORDS
- ALL CONSTRUCTION SHALL CONFORM TO CURRENT LOCAL, STATE AND FEDERAL CODES
- CONTRACTOR SHALL TAKE APPROPRIATE CARE TO PROTECT EXISTING PROPERTY, STRUCTURES AND EQUIPMENT DURING CONSTRUCTION AND SHALL RESTORE OR REPLACE ANY DATAGED ITEMS AT CLEAR WIRELESS LLC DIRECTION
- 5. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION RELATED ACTIVITIES WITH CLEAR WRELESS LLC CONSTRUCTION MANAGER AS REQUIRED TO NOT DISRUPT EXISTING EQUIPMENT ON SITE
- ALL MAJOR CONSTRUCTION PROCEDURE DISTURBANCES SHALL BE APPROVED BY CLEAR WIRELESS LLC. IN ADVANCE OF PROCEDURES
- CONTRACTOR SHALL VERFY ALL EXISTING STRUCTURE SUPPORT PRIOR TO CONSTRUCTION & REPORT ANY CONCERNS OR DISCREPANCIES TO ENGINEER INTEDIATELY
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY AND PROTECTION OF EXISTING BUILDING STRUCTURES INVOLVED BY THIS SCOPE OF WORK
- CONTRACTOR SHALL NOT DISRUPT ANY UTILITY SERVICES WITHOUT PROPER PERMISSIONS
- O. CONTRACTOR SHALL NOT LEAVE ANY TOOLS, DEBRIS OR SUPPLIES ON SITE DURING OFF-TIMES
- II. CONTRACTOR SHALL DISPOSE OF ANY SITE RELATED DEBRIS WHEN COMPLETED WITH SCOPE OF WORK
- CONTRACTOR SHALL PROVIDE OSHA APPROVED SIGNAGE AS REQUIRED
- 13. ANY INCIDENTS SHALL BE REPORTED TO CLEAR URRELESS LLC WITHIN 2 HOURS OF OCCURRENCE
- II. CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS OR STRUCTURES CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION
- 5. CONTRACTOR SHALL YERFY ALL EXISTING BURIED AND OVERHEAD UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL REPAIR ALL DAMAGED UTILITIES AT HIS OUN COST AND COORDINATE ANY REPAIRS WITH RESPECTIVE UTILITY COMPANY.
- 6. CONTRACTOR SHALL NOT CONTACT LANDLORD, ALL LANDLORD AFFAIRS SHALL BE HANDLED BY SITE ACQUISITION PERSONNEL

GENERAL NOTES

- I. OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK.
 PERFORMED ON THIS PROJECT, DELIVER COPIES OF ALL PERMITS TO
 CLEAR WIRELESS LLC.
- 2. SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING AUTHORITY. CORRECT AND PAY FOR ANY WORK REQUIRED TO PAGS ANY FALLED INSPECTION
- 3. REDLINED AS-BUILTS ARE TO BE DELIVERED TO CLEAR WIRELESS LLC. REPRESENTATIVE
- 4. PROVIDE TUO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE-RING BINDER
- FURNISH AND INSTALL THE COMPLETE ELECTRICAL SYSTEM, TELCO SYSTEM, AND THE GROUNDING SYSTEM AS SHOUN ON THESE DRAILINGS
- 6. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER AND SHALL BE SUBJECT TO APPROVAL BY CLEAR UNRELESS LLC REPRESENTATIVES
- CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS AFFECTING THIS WORK, REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION
- 8. PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA
- 9. REMOVE DEBRIS ON A DAILY BASIS, DEBRIS NOT REMOVED IN A TIMELY FASHION UILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY, REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE SITE CHARGE REPRESENTATIVE, DEBRIS SHALL BE REMOVED ROMITHE PROPERTY AND DISPOSED OF LEGALLY, USE OF THE PROPERTY'S DUMPSTER IS PROMISTED.
- IO. CONTRACTOR TO CONFIRM AVAILABLE CAPACITY AT EXISTING UTILITY PEDESTAL AND ADVISE ENGINEER OF SERVICE SIZE AND FAULT CURRENT LEYEL.
- II. F PEDESTAL DOES NOT HAVE ADEQUATE CAPACITY, CONTRACTOR TO SUBHITICOST QUOTATION TO UPGRADE UPON APPROVAL OF SUBHITIDE COST QUOTATION, THE CONTRACTOR SHALL PROVIDE NEW SERVICE AND/OR UPGRADE SERVICE FEEDERS AND COUNTRIENT ELECTRODE GROUNDING CONDUCTORS SIZE ACCORDINGLY.
- 12. CONTRACTOR SHALL VERIFY SEPARATION DIFENSION BETWEEN POWER COMPANY ELECTRICAL CONDUINS AND LP GAS PIFES AS PER UTILITY COMPANY, LOCAL CODES, NEC. NEPA, AND GAS TANK HANFACTURERS SPECFICATIONS
- B. CONTRACTOR SHALL YERRY THAT THE TOTAL NUMBER OF SERVICE BYTRANCE DISCONNECTS IN THE SUSTING HILLY COMPANY PEDESTAL MIST NOT EXCEED SIX IF THE NEW SERVICE ADDED EXCEEDS THIS YAUG, CONTRACTOR HIST COORDINATE WITH THE UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION THE RUNNING OF AN ADDITIONAL EXCLUSIVE AND DEDICATED SERVICE LATERAL SET FOR THE NEW LOAD ADDED TO THE COMPOUND AS PER NEC ARTICLE 230-2(B).
- IA, THE EQUIPMENT/ PROTECTIONS MUST BE RATED FOR STANDARD AIC RATE HIGHER THAN INCOMING EQUIPMENT AND/OR UTILITY COMPANY AIC RATE
- 15. CONTRACTOR SHALL COORDINATE THE UTILITIES WITH CLEAR WRELESS LLC

W-T

W-T COMMUNICATION DESIGN GROUP, LLC. WIRELESS INFRASTRUCTURE

2675 Ptatum Avenus Hoftman Estates, filinois 60192 PH: (224) 293-6333 FAX: (224) 293-6444 www.vtengineering.com H. Linema No.: 184-001108 Exp. 04/30/11

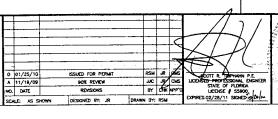
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Clear Wireless LLC'

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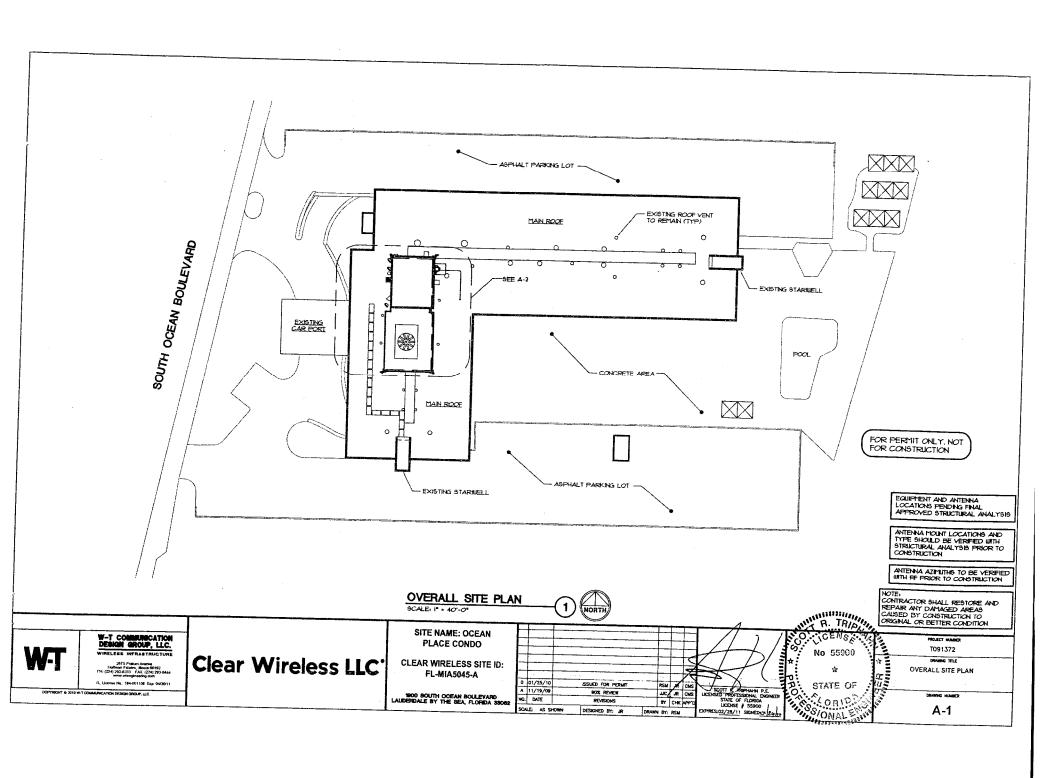
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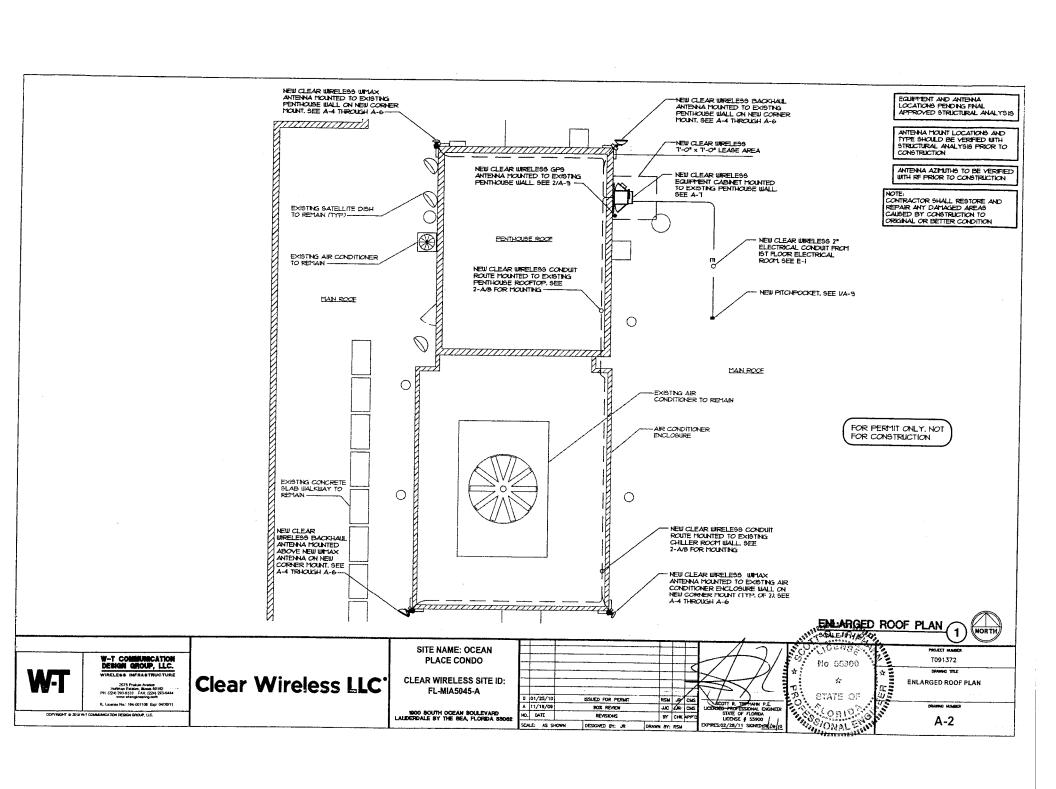
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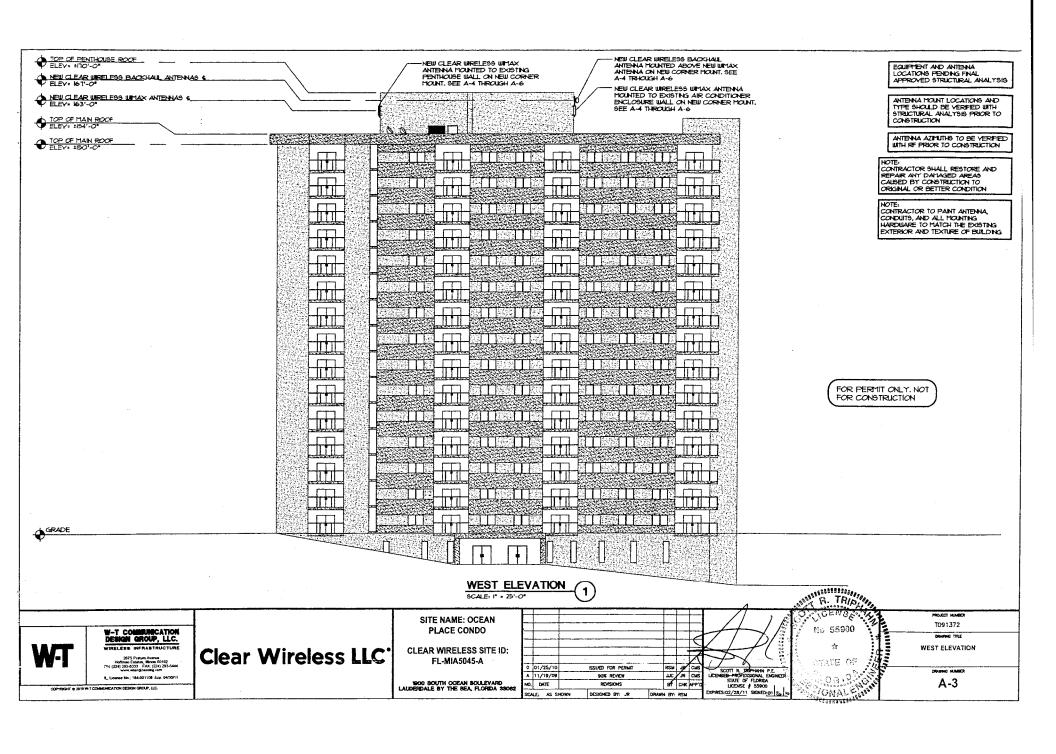


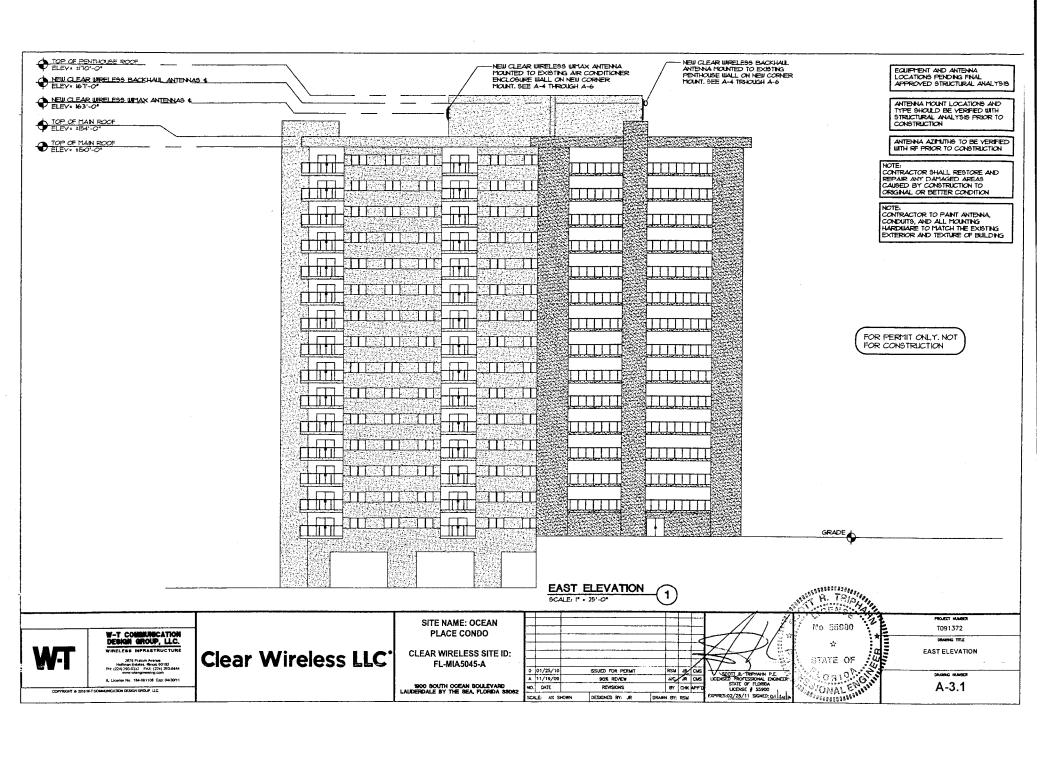
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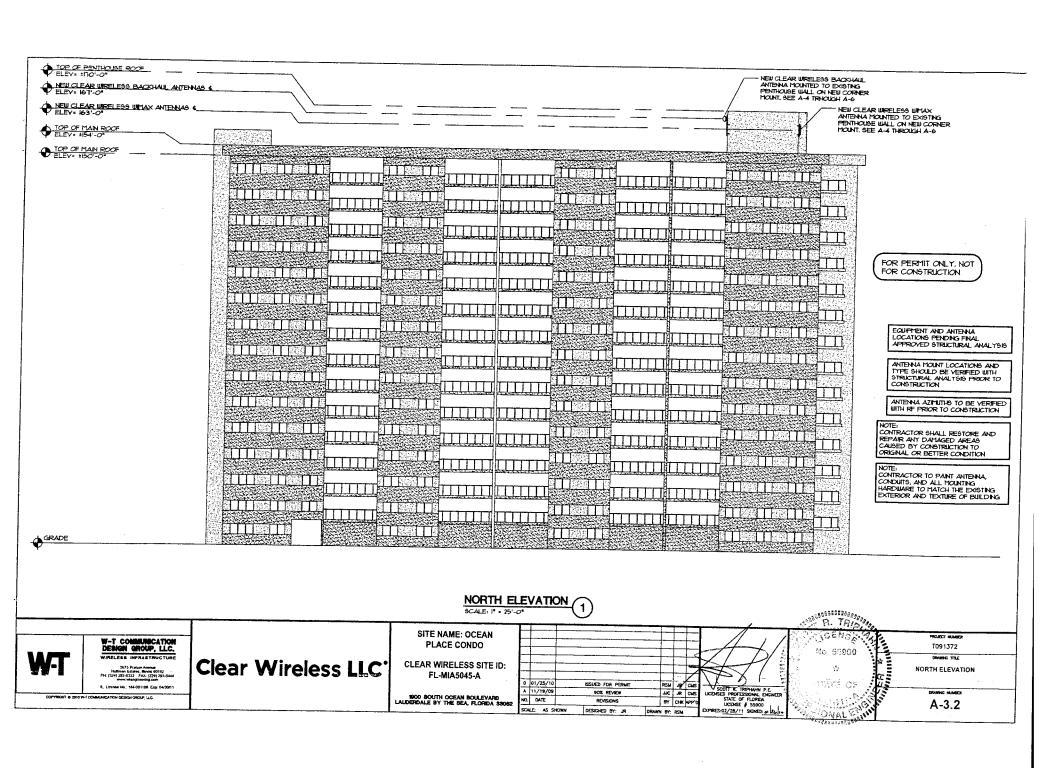
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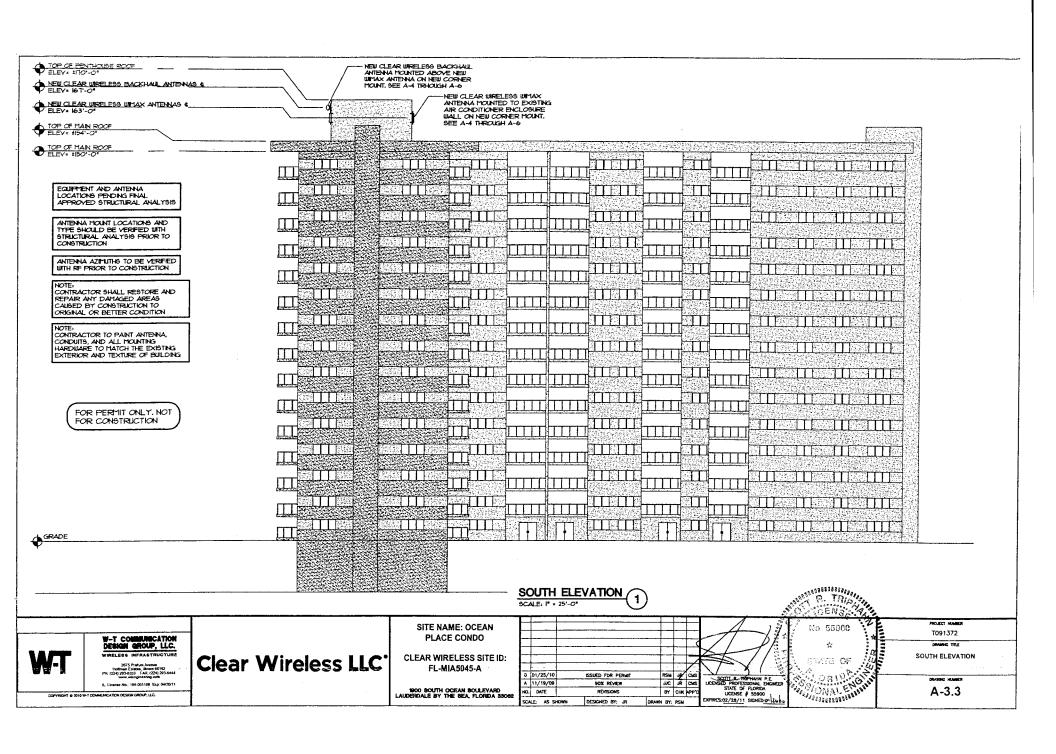


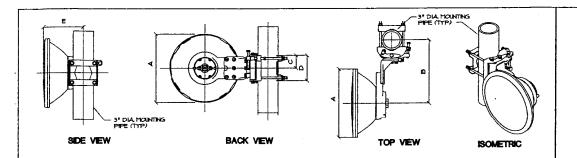












VHLP2-18 ANTENNA DIMENSIONS ALL DIMENSIONS NI MM (NICHES)

BACKHAUL ANTENNA DETAIL

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BACK	ł	209.3821*	ANDREW VHLP2-18	26.1°/ 31 LBS	ноне	FL-MIA5039	1.216	167'	o.	o	1	XEM	ı	ANDREW LDF4-50A	1/2"	√- 130'
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COAXIAL NOTE: CONTRACTOR TO VERFY CLEAR WRELESS MARKET STANDARD PRIOR TO ORDERING COAX

NEW BACKHAUL & WIMAX ANTENNA TABLE

SCALE: NONE

W-T COMMUNICATION DESIGN GROUP, LLC. VIDEL FEE IMPRASTRUCTURE

8. License No.: 184-001108 Exp: 04/30/11

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Clear Wireless LLC

SITE NAME: OCEAN PLACE CONDO

TOTAL CABLE GUANTITY

CLEAR WIRELESS SITE ID: FL-MIA5045-A

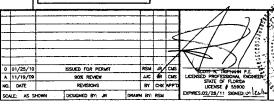
1900 SOUTH OCEAN BOULEYARD LAUDERDALE BY THE SEA, FLORIDA 83062

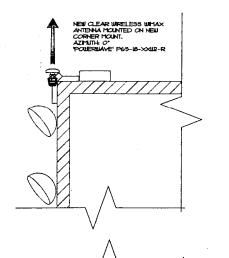
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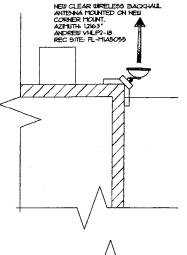
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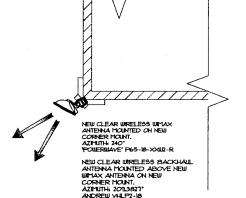
CONTRACTOR TO VERIFY ALL RF INFORMATION PRIOR TO

FINAL EQUIPMENT AND ANTENNA LOCATION PENDING APPROVED

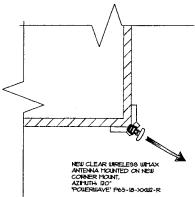








REC SITE: FL-MIA5039



FOR PERMIT ONLY, NOT FOR CONSTRUCTION

STATE OF

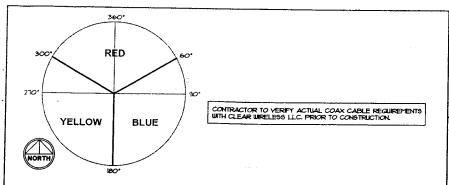
NEW ANTENNA PLAN SCALE: I"= 5'-0"

1811 A. 1910 No 55900

MOUNT MAKES T091372 DRAWING TITLE

ANTENNA PLANS & DETAILS

A-4



ANTENNA & DISH LABELING

CONTRACTOR SHALL USE SECTOR APPROPRIATE COLORED TAPE TO DENOTE THE ANTENNA AND MICROUAVE DISHES, TAPE SHOULD BE URAPPED AROUND THE TOP AND BOTTOM OF THE SUPPORT PIPE AS DEPICTED ABOVE.

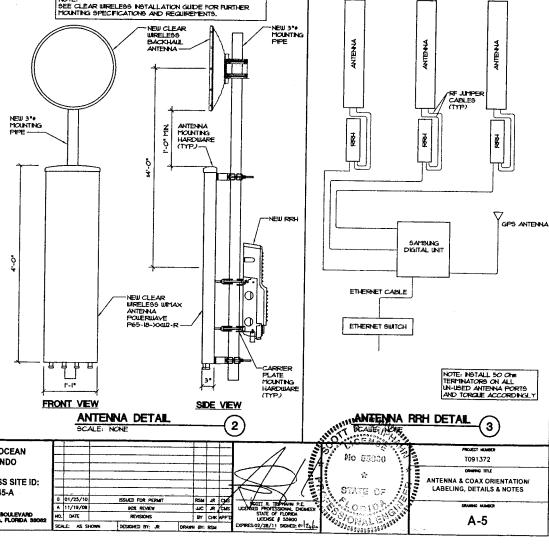
COAX CABLE LABELING

- . REFER TO LATEST REVISION OF CLEARWIRE CONSTRUCTION INSTALLATION GUIDE FOR LABEL MARKINGS
- 2. ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY THE CONTRACTOR.
- 3. THE DESIGN IS BASED ON THE EMSS REPORT, SIGNED AND APPROVED BY RF ENGINEERING.
- 4. THE CONTRACTOR SHALL VERIFY THE ACTUAL LENGTHS OF CABLES BEFORE INSTALLATION.
- 5. ALL TIE WRAPS SHALL BE OUT FLUSH WITH THE APPROVED CUTTING TOOL FOR SAFETY AND PROTECTION.
- 6. ALL SITE CABLING SHALL MANTAN MAXIMUM CABLE SEPARATION REQUIREMENTS AS TO THE TYPE OF CABLE AND RINCTION, THIS IS DONE TO PROTECT DAMAGE, AS WELL AS TO PREVENT THE NIDUCTION OF CURRENT INTO THE CONDUCTIONS PROT MAGNETIC LINES OF FLUX CREATED PROT POWER AND CURRENTS THROUGH THE CABLES.
- CABLES SHALL BE PROTECTED FROM DAMAGE AND SHALL HAVE THE MINIMM BEND RADIUS FOR THE SIZE AND MANUFACTURER OF THAT CABLE. IN THIS CASE THE MINIMM RADIUS IS 4 INCHES.
- 8. SLACK SHALL BE LEFT IN THE CABLES LEAVING THE EQUIPMENT TO THEIR TERMINATION POINTS.
- ALL CABLES SHALL BE ROUTED AND NOTALLED IN A MANNER AS TO PROTECT THE CABLES FROM DAMAGE OF SHARP EDGES OF HARDWARE AND WHERE CABLES ARE ROUTED DOWN THE TOWER.
- IO. CABLES SHALL BE SUPPORTED A MINIMUM OF EVERY THREE (3) FEET EXCEPT FOR INSIDE MONOPOLES AND LATTICE TOWERS WHERE CABLE AND CONNECTOR MANUFACTURERS SUPPORT RECONMENDATIONS SHALL BE FOLLOWED.
- IL DRIP LOOPS SHALL BE RECUIRED ON ALL OUTSIDE CABLES, CABLES SHALL BE SLOPED AWAY FROM THE BUILDING OR OUTDOOR CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE CABLE PORT.

ANTENNA & COAX ORIENTATION - (3) SECTOR LABELING

INSTALLATION NOTES

- L SECTOR ORIENTATION/AZIMITH AND HEIGHT WILL YARY FROM REGION TO REGION AND IS SITE SPECIFIC, REPER TO THE BYSS REPORT FOR EACH SITE TO DETERMINE THE ANTENNA AND MICROWAVE LOCATION AND RINCTION OF EACH SECTOR.
- 2. ALL TOWER MOUNTS INSTALLED MUST BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES.
- REFER TO THE MANUFACTURER'S ASSEMBLY DOCUMENTATION FOR TORQUE SPECIFICATIONS.
- 4. ALL BOLTS TO BE TIGHTENED TO A "SNUG-TIGHT" CONDITION "SNUG-TIGHT" CONDITION IS DEFNED AS THE TIGHTNESS THAT EXISTS WHEN ALL PILES IN A JOINT ARE IN FIRM CONTACT, THIS MAY BE ATTAINED BY A FEW IMPACTS FROM AN IMPACT WRENCH OR THE FILL EFFORT OF A MAN USING AN ORDINARY "SPLID" WRENCH.
- 5. LOCATE DISH ANTENNA SO THAT THE DISH CENTERLINE IS NO MORE THAN 2'-O' FROM THE CENTERLINE OF THE MOUNT.





W-T COMMUNICATION DESIGN GROUP, LLC. WIRELESS IMPRASTRUCTURE

2675 Pratum Avenue
Hoffman Estates, Illinois 60192
PH (224) 293-6333 FAX: (224) 293-6444
www.wtenginnelang.com
III. Licensa No.: 184-001108 Exc. 94/3011

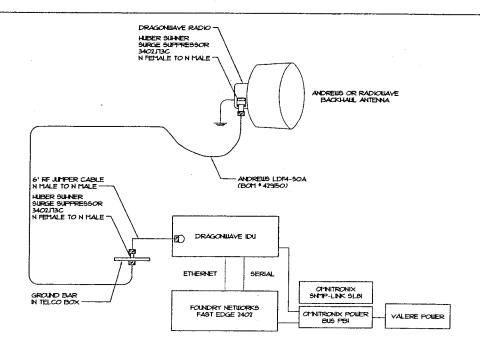
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Clear Wireless LLC

SITE NAME: OCEAN PLACE CONDO

CLEAR WIRELESS SITE ID: FL-MIA5045-A

1900 BOUTH OCEAN BOULEVARD LAUDERDALE BY THE BEA, FLORIDA 38065



EQUIPMENT	DISTANCE	MANUFACTURER	PART NUMBER	BOM NUMBER
REDLINE	UP TO 300'	BELDEN	BELDEN 1919A CATS	433685
REDLINE	UP 10 200'	ANDREW	F6J4-50B I/4 9UPERFLEX 50 OHM	430174
REDLINE	201' TO 300'	ANDREW	LDF4-50A 1/2 HELIAX 75 OHM	429150
DRAGONIJAVE	O' TO 25O'	COMMISCOPE	9Fx-5 <i>00</i>	413138
DRAGONWAVE	251' TO 350'	COMMISCOPE	FXL-540	452440
DRAGONILIAVE	351' TO 700'	COMMSCOPE	FXL-180	382525
DRAGONWAVE	OVER 100'	COMMSCOPE	CONTACT ENGINEERING	-
MOTOROLA (ORTHOGON)	UP TO 300'	BELDEN	BELDEN 1919A CATS	433685

BACKHAUL ANTENNA INSTALLATION DETAIL

SCALE : NONE

W-T

W-T COMMUNICATION DESIGN GROUP, LLC, WIRELESS INFRASTRUCTURE

1075 Pratum Averses
1405man Esses; Binore 50192
194 (204) 933-344

H. License No : 184-001108 Exp. 04/30/11

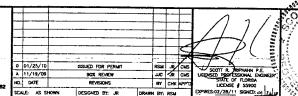
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Clear Wireless LLC

SITE NAME: OCEAN PLACE CONDO

CLEAR WIRELESS SITE ID: FL-MIA5045-A

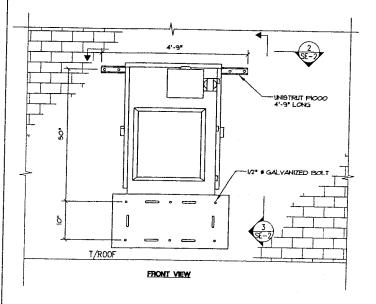
1900 SOUTH OCEAN BOULEVARD LAUDERDALE BY THE SEA, FLORIDA \$30

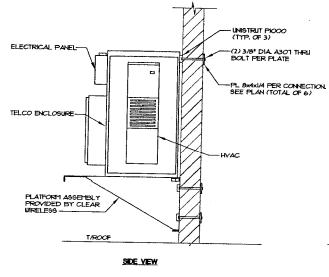


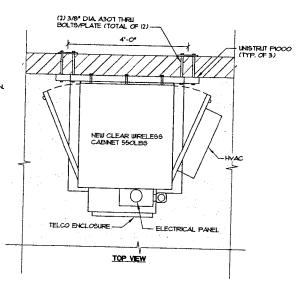
PROCET MARKET
TO91372
NO 55900

DOWNST THE
BACKHAUL ANTENNA
INSTALLATION DETAIL

DRAWNG HUMB







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WALL MOUNTED EQUIPMENT CABINET DETAILS

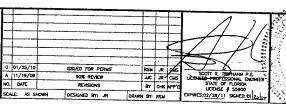
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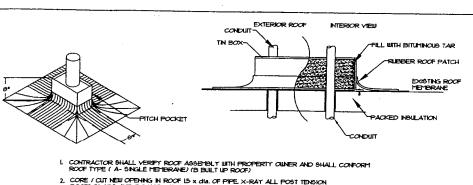
SITE NAME: OCEAN PLACE CONDO

CLEAR WIRELESS SITE ID: FL-MIA5045-A

1900 SOUTH OCEAN BOULEVARD LAUDERDALE BY THE SEA, FLORIDA 33062



PROJECT HAMER
TO91372
NO 55000
REQUIPMENT CABINET DETAILS
DIMINISTRACT
A-7

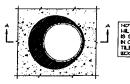


- 2, CORE / CUT NEW OPENING IN ROOF IS x dia, OF PIPE, X-RAY ALL POST TENSION ROOFS/SLABS AND DO NOT CUT ANY STEEL.
- 3. SEE SITE PLAN FOR ELECTRIC, TELCO, AND GROUNDING CONDUIT SIZES.
- 4. USE UL 66YT HILITI 2 HOUR FS-ONE FIRESTOP MATERIAL CLEAN CONTACT SURFACE AND INSTALL HILTI FIRE-STOP MATERIAL
- MINFILM 4" THICK MINERAL LIDOL (MIN. 4 PCF DENSITY) (NOTE: IF MAX. PIPE SIZE IS 4" NOM. DIA, A MIN. 3" THICKNESS OF MINERAL LIDOL MAY BE USED)

ROOF PENETRATION DETAIL SCALE: NONE

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UL 9Y9TEM NO. C-AJ-H99 METAL PIPE THROUGH CONCRETE FLOOR WALL, OR BLOCK WALL F RATING = 2-HR A SECTION A-A





L CONCRETE FLOOR OR WALL ASSEMBLY:
A LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR
(MINIMM 4-1/2* THICK).

(MINITH 4-12" THICK).

B. LICHTUEIGHT OR NORTHAL WEIGHT CONCRETE WALL
(MINITH) 4-12" THICK).
C. ANY W. CLASSFIED CONCRETE BLOCK WALL

THROUGH PENETRANTS TO INCLUDE ANY OF THE FOLLOWING:
A MAXINT 8" NOTHAL DIATETER STEEL PIPE.
B. MAXINT 4" NOTHAL DIATETER COPPER PIPE.

B. FIANTIUM 4 NOTINAL DIAMETER COFFER PIFE.
C. MANTIUM 4 NOTINAL DIAMETER BITS.
D. MANTIUM 4 NOTINAL DIAMETER BITSEL CONDUIT.
3. MIN 12" DEPTH HEIT IF ONE HEIM PERFORMANCE NITHESCENT 2-HR FIRESTOP SEALANT.
4. MIN 12" BEAD HILT IF 99-ONE HEIM PERFORMANCE

NTUTESCENT 2-HR FIRESTOP SEALANT, 5. MINIMUM 4" THICK MINERAL WOOL (MIN. 4 PCF DENSITY) (SEE NOTE NO. 4).

NOTES LX-RAY FLOOR SLAB PRIOR TO CORE DRILLING. NO CUTTING/DAMAGING OF EXISTING REBAR IS ALLOWED

2. MAXIMUM DIAMETER OF OPENING ... 8"

1

3. ANNLAR SPACE - MINIMM 0", MAXIMM 2".

4. WALLS REQUIRE V2" DEPTH OF SEALANT FLUSH WITH BOTH SIDES.

5. IF MAXIMUM PIFE SIZE IS 4" NOM. DIA, A MINIMUM 3" THICKNESS OF MINERAL WOOL MAY

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS HILTI, NC. TULSA, OK 1-800-879-8000

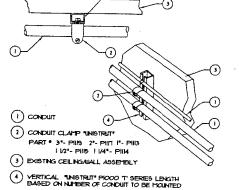
FLOOR / WALL PENETRATION



CLEAR WIRELESS SITE ID: FL-MIA5045-A

SITE NAME: OCEAN PLACE CONDO

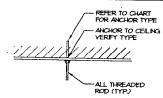
1900 SOUTH OCEAN BOULEVARD LAUDERDALE BY THE SEA, FLORIDA 33065



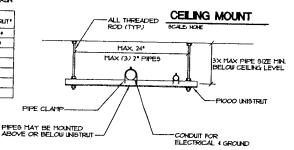
USE STANDARD STANLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTION OF CHANNELS

SPACE UNITS . 6'-0" ON CENTER CONDUIT SUPPORT WALL MOUNT

WALL CONSTRUCTION	USE
HOLLOW	IM*DIA TOGGLE BOLT
HOLLOW, AT STUD	14"DIA LAG SCREW
CONCRETE BLOCK (HOLLOW)	1/4"DIA HILTI HY-20 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	MA DIA HILTI HY-150 WITH SCREEN



NOTE: SPACE EACH KIT 6'-0" O.C. LENGTH OF RUN PIPE/CONDUIT CLAMP ALL PART • ARE "UNISTRUT OD. OF PIPE PART * P2030 P2O34 25 P2038 2 1/2" P2O43 P2046 4. PII2O



UTILITY CONDUIT TRAPEZE MOUNT STRICE R. TRICE SCALE : NONE

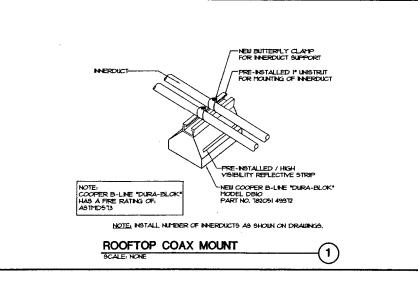
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Clear Wireless LLC

0 01/25/10 ISSUED FOR PERMIT RSM JR CM A 11/19/09 90% REVIEW JUC JR CMS NO. DATE REVISIONS BY CHK APP SCALE: AS SHOWN DESIGNED BY: JR DRAWN BY: RSM EXPIRES:02/28/11 SIGNED:01 26

PROJECT HUMBE T091372 No 55900 NC TOPS CONDUIT DETAILS & NOTES DRAWING MAMBER A-8

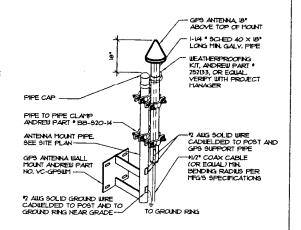


CONTRACTOR SHALL PROVIDE AND INSTALL ALL GPS COMPONENTS.

THE GPS ANTENNA MOINT IS DESIGNED TO FASTEN TO A STANDARD I MYDIA SCHUO GALVANIZED OR STANLESS STEEL PIPE. THE PIPE MIST BE THEREADED AT THE ANTENNA MOINT BIOL THE PIPE SHALL BE CUIT TO THE REQUIRED LERGHT MIN OF BY JUSING A HAND OR ROTARY PIPE CUITTER TO ASSURE A SHOOTH PERPENDICULAR CUIT. THE CUIT PIPE BIOD SHALL BE DEBURSED AND SHOOTH IN ORDER TO SEAL AGAINST THE REOFFEDDE GASKET ATTACHED TO THE ANTENNAS MOUNT

INSTALL GPS ANTENNA AS SPECIFIED ON SITE PLAN. IF INSTALLING ON KE/CABLE BRIDGE ENSURE THAT GPS IS A MINIMUM OF 10' ABOVE GRADE, ON THE FURTHEST POST FROM THE TOWER TO ATTAIN MAXIMUM COVERAGE.

CONTRACTOR SHALL ENSURE THE GPS ANTENNA HAS THE REQUIRED RILL EXPOSURE TO THE SOUTHERN HEMISPHERE/HORIZON



GPS ANTENNA DETAIL

2

SCALE: NONE

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L FLOOR OR WALL ASSEMBLY -- MIN 4-1/2 IN THICK REINFORCED LIGHTWEIGHT OR PLOOK OR WALL ASSETBLET ** TIN 4-I/X IN HIKK REINFORCED LEARNINGSHI OK NORTAL WEIGHT (000-50 PCF) CONCRETE WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSFIED CONCRETE BLOCKS • MAX DIAM OF OFFINIA IS 8 N. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE

SEE CONCRETE BLOOKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANIFACTURERS).

2. THROUGH PENETRANTS -- ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED WITHIN THE FREESTOR 9'TSTEM PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNUAR SPACE SHALL BE MIN O N (POINT CONTACT) TO MAX 1-3/6 N, THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUINS MAY BE USED:

A STEEL PIPE -- NOTI 6 N, DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.

STEEL PIPE.

B. IRON PIPE -- NOM 6 N. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. CONDUIT -- NOM 4 N. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC
TUBING OR NOM 6 N. DIAM (OR SMALLER) STEEL CONDUIT.

3. PACKING MATERIAL -- TIM 4 N. THICKNESS OF HIM 40 PCF MINERAL WOOL BATT
NSULATION FIRSTLY PACKED NTO OPENING AS A PERMANENT FORM PACKING
MATERIAL TO BE RECEISSED FROM TOP SURFACE OF FLOOR OR FROM BOTH
SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL

CF FILL MATERIAL.

4. FILL, VOID OR CAMPY MATERIAL* -- SEALANT -- MIN I/A IN THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNILUS, FLUSH WITH TOP SUFFACE OF FLOOR AND WITH BOTH SUFFACES OF WALL AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A RIN I/A IN DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE PIPE INTERFACE ON THE TOP SUFFACE OF FLOOR AND ON BOTH A THE CONCRETE PIPE INTERFACE ON THE TOP SUFFACE OF FLOOR AND ON BOTH A CHIEF OF CHIEF OF THE CONCRETE PIPE INTERFACE ON THE TOP SUFFACE OF FLOOR AND ON BOTH A CHIEF OF CHIEF OF THE CONCRETE PIPE INTERFACE OF THE OPENING OF CRACK SEAL MATERIAL PROPERTY. SURFACES OF WALL IN RATING APPLIES ONLY WHEN CPGOIS OR CPGOI SEALANT IS

USED. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP6015, CP604, CP606 OR F9-ONE SEALANT
*BEARING THE UL CLASSIFICATION MARK

OUTER WALL PENETRATION

UL 9Y9TEM NO, C-AJ-1150 CONDUIT THROUGH BEARING WALL SMILAR TO UL DESIGN NO. U907. FRATES : REPROSESSION OF TRAINS

W-T COMMUNICATION DESIGN GROUP, LLC.

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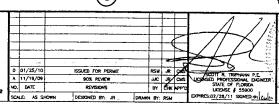
Clear Wireless LLC'

SITE NAME: OCEAN PLACE CONDO

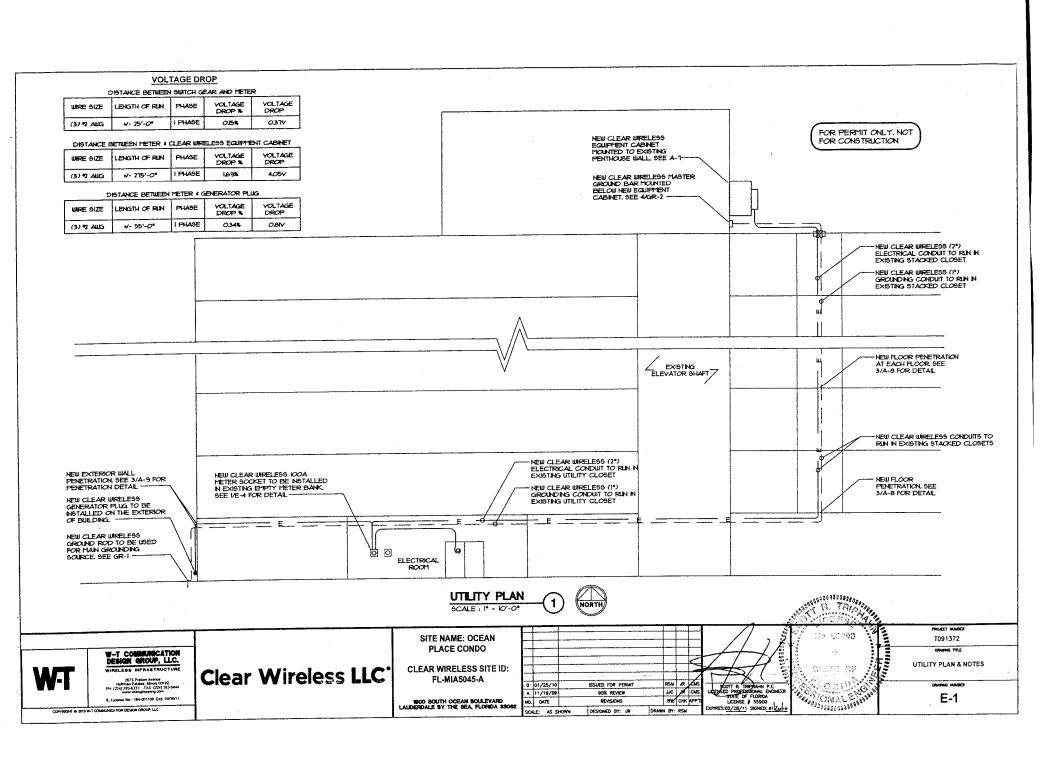
SECTION A-A

CLEAR WIRELESS SITE ID: FL-MIA5045-A

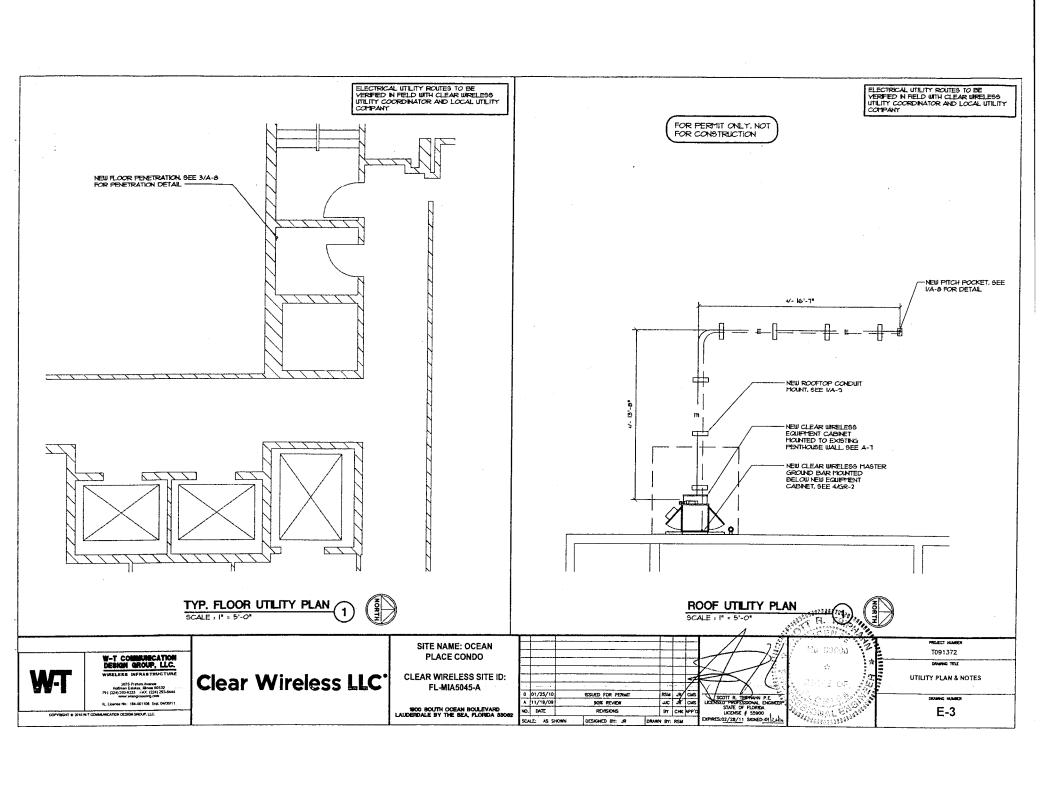
1900 SOUTH OCEAN BOULEYARD LAUDERDALE BY THE SEA, PLORIDA 38062

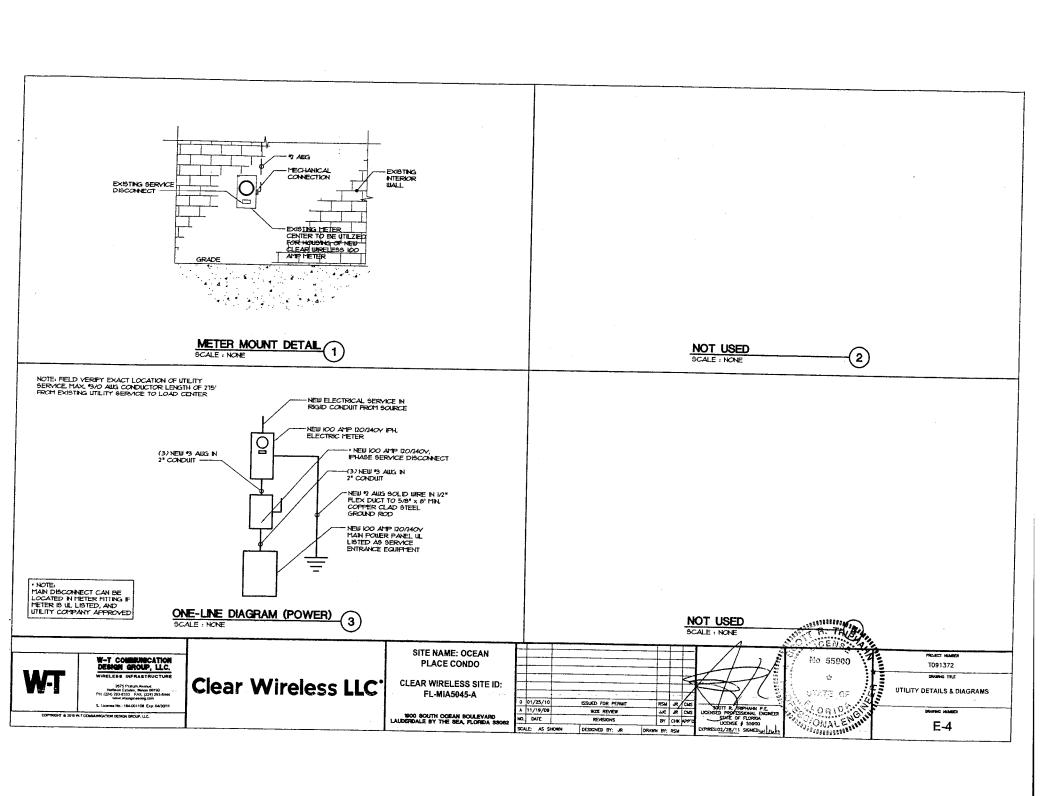


PROJECT NUMBER T091372 Mo 55900 CONDUIT DETAILS & NOTES AF OF A-9



ELECTRICAL UTILITY ROUTES TO BE VERFIED IN FELD WITH CLEAR WIRELESS UTILITY COORDINATOR AND LOCAL UTILITY COMPANY anaman James James and Marie +/- |!'-|!" NEW FLOOR PENETRATION SEE PENETRATION DETAIL FOR PERMIT ONLY, NOT FOR CONSTRUCTION NEW CLEAR WRELESS (I*) GROUNDING CONDUIT MOUNTED TO THE CEILING. SEE 4/A-8 FOR DETAIL -NEW CLEAR WIRELESS (2") ELECTRICAL CONDUIT MOUNTED TO THE CEILING. SEE 4/A-8 FOR DETAIL -NEW GROUND ROD TO BE UTILIZED FOR GROUNDING OF NEW CLEAR WIRELESS EGUIFMENT - NEW CLEAR WIRELESS
GENERATOR PLUG TO BE
INSTALLED ON THE EXTERIOR NEW WALL PENETRATION SEE 3/A-8 FOR PENETRATION DETAIL OF BUILDING. ZZZ NEW CLEAR WIRELESS IOOA METER SOCKET TO BE NOTALLED IN EXISTING EMPTY METER BANK SEE VE-4 FOR DETAIL **⊬**- 21'-2" +/- 28'-9" -NEW EXTERIOR WALL FENETRATION, SEE 3/A-9 FOR PENETRATION DETAIL THE THE TAXABLE LOBBY UTILITY PLAN SCALE : I" = 10'-0" OF TRIPAN SITE NAME: OCEAN PROJECT NUMBER W-T COMMUNICATION DESIGN GROUP, LLC. PLACE CONDO T091372 No 55900 Clear Wireless LLC CLEAR WIRELESS SITE ID: UTILITY PLAN & NOTES FL-MIA5045-A 0 01/25/10 RSM JR CMS ISSUED FOR PERMIT IL License No.: 184-001108 Exp. 04/30/11 DRAWING NUMBER A 11/19/09 90% REVIEW 1900 SOUTH OCEAN BOULEVARD LAUDERDALE BY THE SEA, FLORIDA \$3062 COPYRIGHT @ 2010 W-T COMMUNICATION DESIGN GROUP, U.C. NO. DATE REVISIONS E-2 SCALE: AS SHOWN DESKONED BY: JR DRAWN BY: RSM



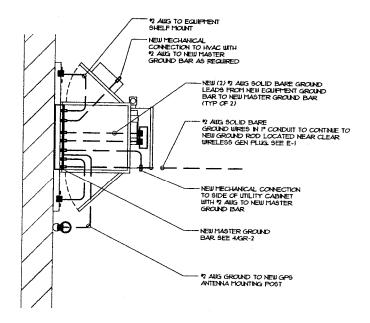


GROUNDING NOTES

- L. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 2. ALL GROUNDING DEVICES SHALL BE UL. APPROVED OR LISTED FOR THEIR INTENDED USE.
- 3. GROUND WIRES SHALL BE TINNED 12 AUG BARE SOLID COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS SHALL BE EXOTHERMIC (CADUELD) UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY THETAL. WHERE GROUND WIRES ARE CADUELDED TO GALYANIZED SURFACES. SPRAY CADUELD WITH GALYANIZING PAINT.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 8" RADIUS. PEROR TO NOTALLING UIGS ON GROUND WIRES, APPLY THOMAS 4 BETTS KOPR-SHIELD (TH OF JET LUB NC) PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR FOLKL.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, NSTALL WIRE IN 1/2" PVC SLEEVE, FROM 1"-0" ABOVE GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REPIOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- 8. GROUNDING WIRE CONNECTIONS SHALL BE 3-CRIMP C-TAP COMPRESSION TYPE. SPLIT BOLTS ARE NOT ACCEPTABLE.
- 9. GROUND RODS SHALL BE COFFER CLAD STEEL 5/8" X 8' SPACED NO LESS THAN 8' O.C.
- IO. CONNECTORS SHALL BE CRIMMED USING HYDRAULIC CRIMMING TOOLS.
 SURFACE CONNECTIONS SHALL BE HADE TO BARE METAL. PAINTED SURFACES SHALL BE FILED TO DISSINGE PROPER CONTACT. APPLY NON-OXIDIZING AGENT TO CONNECTIONS.
- IL COPPER BUSES SHALL BE CLEANED AND A NON-OXIDIZING AGENT APPLIED. NO FINGERFRINTS OR DISCOLORED COPPER WILL BE PERMITTED, GROWDING CONDUCTORS SHALL BE RIN THROUGH PVC SLEEVE WHERE ROUTED THROUGH WALLS, FLOORS, AND CEILING. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CALLY.
- HARDWARE (I.E. NUTS, BOLTS, WASHERS), ETC.) IS TO BE STANLESS STEEL.
 EXCITHERSTIC WELDS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS
 RECOTTEMPOLATIONS.
- i9. THE ENTIRE 9Y9TEH 9HALL BE SOLIDLY GROUNDED USING LOCKNUTS, AND BONDING NUTS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS. RECEPTACLES AND EQUIPMENT BRANCH CIRCUITS SHALL BE GROUNDED WITH A RILL SIZED EQUIPMENT GROUNDING CONDUCTOR RIAN IN THE CIRCUIT'S CONDUIT.
- NSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUS IN THE PANEL BOARD.
- 15. GROUND BARS (SECTOR, COLLECTOR, AND MASTER) SHALL BE BARE (4**X4* COPPER, LARGE ENCUCH TO ACCOMMODATE THE REQUIRED NUMBER OF GROUND CONNECTIONS. THE HARDWARE SECURNS THE MGB SHALL ELECTRICALLY INSULATE THE MGB FROM ANY STRUCTURE TO WHICH IT IS FASTENED.
- 16. APPLY THB KOPR-SHLIED OR APPROVED EQUAL PRIOR TO MAKING MECHANICAL CONNECTIONS. CONNECTIONS SHALL BE HADE WITH STAINLESS STEEL BOLTS, NUTS AND LOCK WASHERS 3/8" DIAMETER MIN. WHERE GALVANIZING IS REPROVED FROM METAL IT SHALL BE PAINTED OR TOUCHED UP WITH YALLYONOX! OR EQUAL.
- II. ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS, FRAMES OR EQUIPMENT AND WHERE EXPOSED FOR GRONDING CONDUCTOR TERMINATION SHALL BE FERFORTED. UTILIZING TWO HOLE BOLTED TOKSUE COMPRESSION TYPE LUS WITH A DRAGON TOOTH WASHEST.
- IB. ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUINS SHALL BE PVC TYPE INON-CONDUCTIVE). DO NOT USE NETAL BRACKETS OR SUPPORTS WHICH USULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
- 19. ALL BOLTS, WASHERS AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.
- 20. THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRST TO TEST AND YERRY THAT RESISTANCE TO EARTH DOES NOT EXCEED 5.0 OH/15. PROVIDE A COPY OF TESTING REPORT, INCLUDING THE HETHOD AND INSTRUMENTS USED TO YERRY RESISTANCE TO CLEAR WIRELESS LLC. REPRESISTANTIA.
- 21. BOND CABINET THROUGH THE MAIN GROUND BAR PER MANUFACTURE SPECIFICATIONS.

NOTE: FOR ANTENNA GROUNDING DETAILS SEE SHEET GR-3.

FOR PERMIT ONLY, NOT FOR CONSTRUCTION



GROUNDING PLAN
9CALE: 1/2* = 1'-0*



W-T COMMUNICATION DESIGN GROUP, LLC. WIRELESS INFRASTRUCTURE

2675 Projum Avenue Hollman Estates, Binos 60192 PH: (224) 293-6333 FAX: (224) 293-6444 www.wisespinesing.com III. Licems No.: 184-001106 Extr. 04/30/11

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Clear Wireless LLC

SITE NAME: OCEAN PLACE CONDO

CLEAR WIRELESS SITE ID: FL-MIA5045-A

1900 SOUTH OCEAN BOULEVARD LAUDERDALE BY THE SEA, FLORIDA 33052

